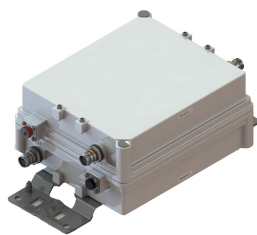


# E14R00P72



Tri Band Tower Mounted Amplifier, 700//800//900 MHz, 12 dB, 2 BTS & 2 ANT ports, AISG with 1 RET connector (1 device with 2 sub-units each)

- TMA is operating in AISG & CWA mode, Alarm Current consumption CWA mode 190 mA
- 2 input ports and 2 output ports
- Designed to boost UP-Link Coverage and KPIs
- 1 device with 2 sub-units
- Automatic LNA by-pass function
- Connectors “in line”
- Single AISG with 1 RET connector
- Built in lightning protection

## Product Classification

**Product Type** 1-BTS:1-ANT (Uniplex) | Tower mounted amplifier

## General Specifications

**Color** Gray

**Modularity** 2-Twin

**Mounting** Pole | Wall

**Mounting Pipe Hardware** Band clamps (2)

**RF Connector Interface** 4.3-10 Female

## Dimensions

**Height** 234 mm | 9.213 in

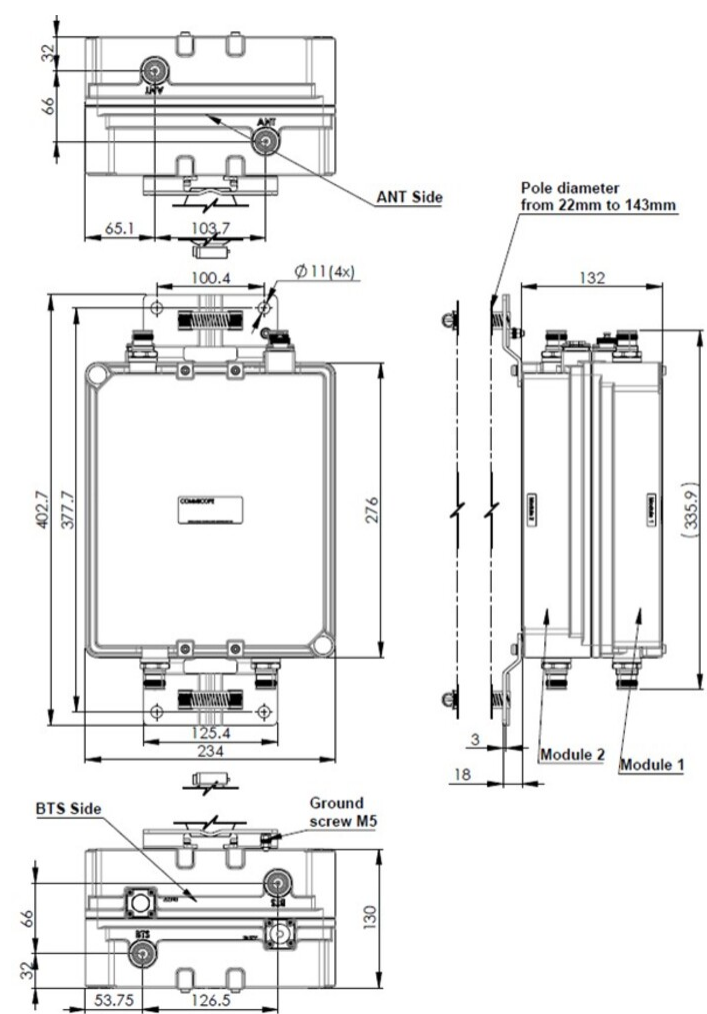
**Width** 130 mm | 5.118 in

**Depth** 276 mm | 10.866 in

**Mounting Pipe Diameter Range** 43–122 mm

## Outline Drawing

# E14R00P72



## Electrical Specifications

License Band, LNA APT 700 | CEL 900 | EDD 800

## Electrical Specifications, dc Power/Alarm

dc Switching/Redundancy	Yes
Lightning Surge Current	10 kA
Lightning Surge Current Waveform	8/20 waveform
Alarm Current, CWA Mode	190 mA $\pm$ 10 mA

## Electrical Specifications, AISG

AISG Connector	8-pin DIN Female
AISG Connector Standard	IEC 60130-9

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Protocol	AISG 2.0
Voltage, AISG Mode	7–30 Vdc

## Electrical Specifications

Sub-module	1   2	1   2	1   2
Branch	1	2	3
Port Designation	ANT	ANT	ANT
License Band	APT 700, LNA	EDD 800, LNA	CEL 900, LNA
Return Loss, typical, dB	20	20	20
Return Loss - Bypass Mode, typical, dB	16	16	16

## Electrical Specifications Rx (Uplink)

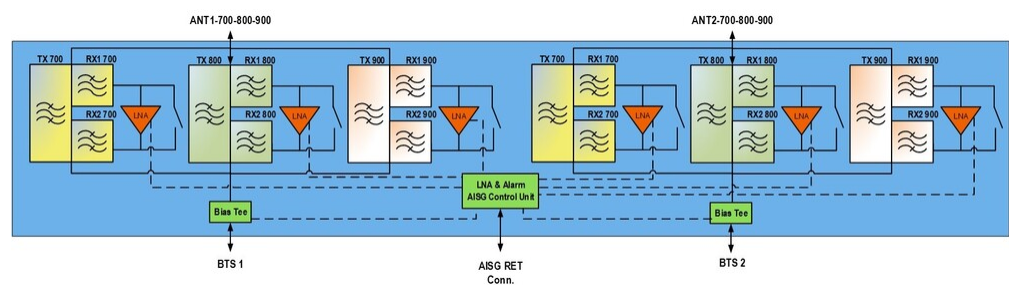
Frequency Range, MHz	723–733	852–862	890–905
Bandwidth, MHz	10	10	15
Gain, nominal, dB	12	12	12
Noise Figure, typical, dB	1.3	1.3	1.6
Total Group Delay, typical, ns	110	90	140
Insertion Loss - Bypass Mode, typical, dB	2.3	2.2	2.6

## Electrical Specifications Tx (Downlink)

Frequency Range, MHz	778–788	811–821	935–950
Bandwidth, MHz	10	10	15
Insertion Loss, typical, dB	0.3	0.3	0.3
Total Group Delay, typical, ns	30	40	30
Return Loss, typical, dB	20	20	20
Input Power, RMS, maximum, W	200	200	200
Input Power, PEP, maximum, W	1000	1000	1000
3rd Order PIM, typical, dBc	-146	-146	-146
3rd Order PIM Test Method	Two +43 dBm carriers	Two +43 dBm carriers	Two +43 dBm carriers

## Block Diagram

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## Environmental Specifications

Operating Temperature	-40 °C to +65 °C (-40 °F to +149 °F)
Corrosion Test Method	IEC 60068-2-11, 30 days
Environmental Test Method	ETSI EN 300 019-1-4
Ingress Protection Test Method	IEC 60529:2001, IP67

## Packaging and Weights

Included	Mounting hardware
Volume	8.4 L
Weight, net	9.5 kg   20.944 lb
Weight, without mounting hardware	9.1 kg   20.062 lb

## Regulatory Compliance/Certifications

Agency	Classification
ISO 9001:2015	Designed, manufactured and/or distributed under this quality management system

### \* Footnotes

License Band, LNA	License Bands that have RxUplink amplification
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